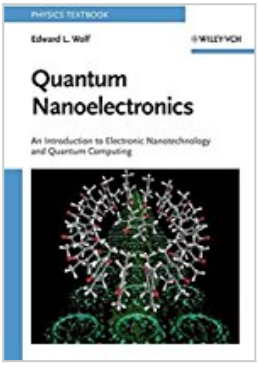

Quantum Nanoelectronics: An introduction to electronic nanotechnology and quantum computing

By Edward L. Wolf

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A tutorial coverage of electronic technology, starting from the basics of condensed matter and quantum physics. Experienced author Ed Wolf presents established and novel devices like Field Effect and Single Electron Transistors, and leads the reader up to applications in data storage, quantum computing, and energy harvesting.
Intended to be self-contained for students with two years of calculus-based college physics, with corresponding fundamental knowledge in mathematics, computing and chemistry.

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Editorial Review

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'Quantum Nanoelectronics' is the first textbook to handle important growth areas not covered in existing books, including adiabatic quantum computing, nanoelectronic aspects of ink-printed thin film solar cells, nanostructured electrodes, solar water splitting, and convenient hydrogen storage, thereby suggesting profitable new directions for nanoelectronic technology. Expanded tutorial coverage is provided for aspects of molecular electronics, from the basics of electronic conduction through chemical bonds to a sixteen-bit computing device as shown in the cover illustration. The interested reader, either a student or a professional interested in a new career direction, is encouraged to use simple theoretical models and to return to the entrepreneurial approach of the pioneers in the Moore's Law revolution.

Cover graphics: Anirban Bandyopadhyay

About the Author
Edward L. Wolf is Professor of Physics at the Polytechnic University in New York City. His long-term teaching experience ranges from undergraduate courses to the direction of thesis research. His research activities cover solid state physics, scanning tunneling microscopy, electron tunneling spectroscopy and superconductivity. Edward Wolf holds industrial and academic appointments. The former Director of the National Science Foundation is Fellow of the American Physical Society. He has authored over 100 refereed publications as well as a monograph on the principles of Electron Tunneling Spectroscopy. The second edition of his successful textbook 'Nanophysics and Nanotechnology' has been published recently.
In 2007, Professor Wolf was honored with the "Jacobs Excellence in Education Award" by the Polytechnical University of New York.

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